Approved For Release 2002/06/10 : CIA-RDP63-00313A000600090101-5

IDEA 0546 Copy 1 of 1

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25X1A	MEMORAHOUM FOR:	USAF (Ret.)	
	SUBJECT:	Medical Report on Extended Flights	
25X1A	Two inflight refu	sached report was prepared by surgeon of the Edwards Air Porce Rase Detachment. Leling (IFR) extended sortice were recently completed	25X1A
		he pilots reactions, etc.	25X1A
	problem the paper that the relation reactions to the Your evaluation w	of your current studies of the pilot fatigue is forwarded for your evaluation. It appears ship of inflight liquid consumption and pilots effects of the long mission may be significant. dill perhaps suggest that this and/or other factors fatigue are evident.	
	A STATE OF THE STA		25X1A
		STANLEY W. BEERLI Colonel USAF Acting Chief, DPD-DD/P	
	Attachment - 1 As noted above		
25X1A	DPD/SPB/:ph Distribution: #1 - Addee #2 - AC/DPD #3 - DPD/SPB	(27 Oct 61)	

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SUBJECT: Some Medical Aspects of Extended IFR Flights

25X1A	1. Two Flights of extended duration which involved IFR have been flown. They for 12+20 hours on 28 September 1961,
25X1A	been flown. flew for 12+20 hours on 23 September 1901, and [] flew for 12+00 hours on 29 September 1961.
	2. Special medical interest was taken to evaluate the fatigue and physiologic factors involved in these flights. Each pilot was counselled prior to flight by the Squadron Surgeon to recombasize the importance of adequate crew rest, proper preflight and inflight diet, and the symptoms of severe fatigue or other medical problems that would indicate reason for aborting the flight short of its scheduled duration.
	3. Preflight exemination and interrogation was accomplished, and vital signs and weight were recorded. In both cases, preflight factors appeared to be optimal, except for the fact that both pilots, by necessity, except from sleep approximately three and one-half hours prior to take-off.
25X1A 25X1A	4. Both flights were consumented without incident, and without abnormal workloads. Inflight feeding was variable according to each pilot's previous indoctrination and personal preference. Both consumed the same amount of food drank no water, and drank four bottles of water and would have drank more if available; with time, this will become a simple matter to anticipate and plan for. Weight loss during flight was negligible, indicating the adequacy of the dietary program which was followed.
25X1A	5. Post-flight examination on revealed no discrepencies or abnormalities, and little, if any, differences between this 12 hour flight and one of 10 hours.
25X1A	6. experienced mild dizziness shortly after ogress
25X1A	from the cockpit, which persisted for about one hour. During this time, pulse rate was fast, but his blood pressure
5X1A	remained normal. It is believed that the phenomenon observed in its capital was due to his vascular constitution coupled with his rapid change in body position, both of which may have been adversely influenced to a small degree by the cigarettes he smaked and small amount of alcoholic beverage he drank after egress from the cockpit.
25X1A	It is not believed that the phenomenon observed inwould occur inflight and become a contraindication to his flying this kind of mission, although close monitoring will be continued.

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ralat		irr	itative	f	ctor	e the	it r	aight	be	eli	minetod	on	futu	TO:	flights.

8. Personal equipment factors functioned optimally. There was a difference of opinion about the efficiency of the pneumatic seat cushion which was provided for pilot comfort. A better type of seat cushion is under consideration.

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9. The respective oxygen consumption curves were predictable;
was below, but parallal, to the curve and he consumed
a total of 1470 psi of oxygen; ______ was consistently gaining
above the curve and he consumed 1000 psi of oxygen.

experience, it would appear that there are no insurmountable medical or psychological problems to conducting IFR flights of approximately 12 hours durations. It must be constantly born in wind that the physiologic manifestations of fatigue, especially the more dangerous ones, such as impaired judgment and relative indifference, are frequently subtle and insidious and may give pilots, as well as others, a false sense of security. At best, this can be counteracted only by an awareness that a potentially dangerous state exists

at the end of any flight of extended duration.

25X1A

Captain, WAF Soundron Surgeon

COFY 27 October 1961